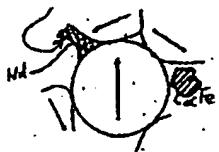


Figure 1

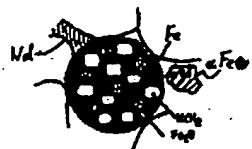
Nd-rich phase Phase transition



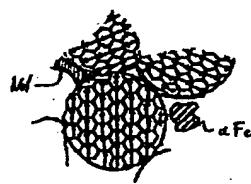
(1) Grain of the parent alloy:

Arrows indicate the crystallographic orientation of the c-axis

Reverse phase transition

(2) Mixture of RH₂, Fe and Fe₂B:

Arrows denote the crystallographic orientation of the c-axis of the Fe₂B phase (orientation of Fe₂B and parent alloy show a good correspondence)



(3) Recombinant microstructure:

Arrows indicate crystallographic orientation of the c-axis of R₂Fe₁₄BH_x phase (orientation of the R₂Fe₁₄BH_x phases matches)

Figure 2 Crystallographic orientation (state of the art)

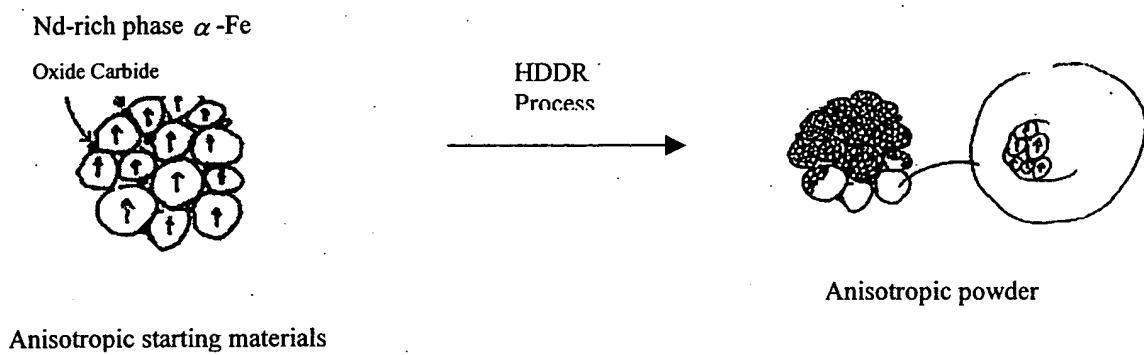


Figure 3